Patent Abstracts of Japan

PUBLICATION NUMBER : 10079741
PUBLICATION DATE : 24-03-98

APPLICATION DATE : 03-09-96
APPLICATION NUMBER : 08233409

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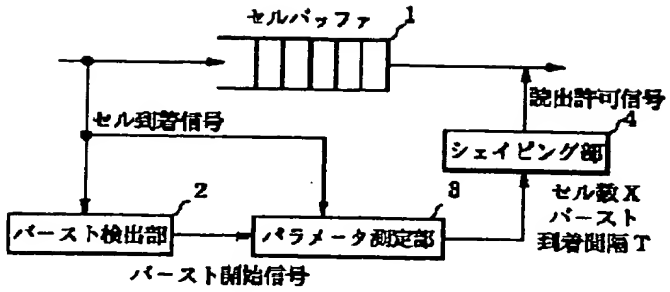
INT.CL. : H04L 12/28 H04Q 3/00

TITLE : TRAFFIC SHAPING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To automatically detect the throughput of the processing of a bottle neck with a simple operation and to improve the efficiency of a network by measuring the number of cells in initial burst when communication starts and time from the arrival of initial burst to the arrival of next burst.

SOLUTION: The burst detection part 2 of a device sequentially measurers and accumulates lapse time I from the completion time of the arrival of one cell to the start time of the arrival of the next cell. The detection part 2 judges it to be the completion of one burst period when the ratio I/I' of present time I against a previous cell interval I' exceeds a threshold. A parameter measurement part 3 measures the number X of the arriving cells included in the burst period and time T between the arrival start time of the burst and the next burst, and a shaping part 4 sets X/T as a read rate. Thus, a more appropriate peak cell read rate(PCR) is automatically decided and the efficiency of the network can be improved.